

WE CLAIM:

1. An improvement to a code-division-multiple-access (CDMA) system employing spread-spectrum modulation, with the CDMA system having a base station (BS) with a BS-spread-spectrum transmitter and a BS-spread-spectrum receiver, and a plurality of remote stations, with each remote station (RS) having an RS-spread-spectrum transmitter and an RS-spread-spectrum receiver, the method comprising the steps of:

transmitting from said BS-spread-spectrum transmitter located at said base station, a broadcast common-synchronization channel having a common chip-sequence signal common to the plurality of remote stations, the broadcast common-synchronization channel having a frame-timing signal;

receiving at a first RS-spread-spectrum receiver the broadcast common-synchronization channel, and determining frame timing at said first RS-spread-spectrum receiver from the frame-timing signal;

transmitting from a first RS-spread-spectrum transmitter an access-burst signal, the access-burst signal having a plurality of segments, with each segment having a preamble followed by a pilot signal, with the plurality of segments having a plurality of power levels, respectively;

receiving at said BS spread-spectrum receiver the access-burst signal at a detected-power level;

LAW OFFICES  
DAVID NEWMAN  
CHARTERED  
CENTENNIAL SQUARE  
P.O. BOX 2728  
LA PLATA, MD 20648  
(301) 934-6100

transmitting from said BS-spread-spectrum transmitter to said first RS-spread-spectrum receiver, responsive to the access-burst signal, an acknowledgment signal;

receiving at said first RS-spread-spectrum receiver the acknowledgment signal; and

transmitting from said first RS-spread-spectrum transmitter, responsive to the acknowledgment signal, to said BS-spread-spectrum receiver, a spread-spectrum signal having data.

2. The improvement as set forth in claim 1 with the step of transmitting from the first RS-spread-spectrum transmitter the access-burst signal, including the step of transmitting the access-burst signal with the plurality of segments having the plurality of power levels increasing sequentially, respectively.

3. An improvement to a code-division-multiple-access (CDMA) system employing spread-spectrum modulation, with the CDMA system having a base station (BS) and a plurality of remote stations (RS) with each remote station having an RS-spread-spectrum transmitter and an RS-spread-spectrum receiver, the improvement comprising:

LAW OFFICES  
DAVID NEWMAN  
CHARTERED  
CENTENNIAL SQUARE  
P.O. BOX 2728  
LA PLATA, MD 20646  
(301) 934-6100

a BS spread-spectrum transmitter located at said base station, for transmitting a broadcast common-synchronization channel having a common chip-sequence signal common to the plurality of remote stations, the broadcast common-synchronization channel having a frame-timing signal;

a first RS-spread-spectrum receiver, located at a first remote station of the plurality of remote stations, for receiving the broadcast common-synchronization channel, and determining frame timing at said first RS-spread-spectrum receiver from the frame-timing signal;

a first RS-spread-spectrum transmitter, located at said first remote station of said plurality of remote stations, for transmitting an access-burst signal, the access-burst signal having a plurality of segments, with each segment having a preamble followed by a pilot signal, with the plurality of segments having a plurality of power levels, respectively;

said BS spread-spectrum receiver for receiving the access-burst signal at a detected-power level;

said first RS-spread-spectrum receiver for receiving the acknowledgment signal; and

LAW OFFICES  
DAVID NEWMAN  
CHARTERED  
CENTENNIAL SQUARE  
P.O. BOX 2728  
LA PLATA, MD 20646  
(301) 934-6100

said first RS-spread-spectrum transmitter, responsive to the acknowledgment signal, for transmitting to said BS-spread-spectrum receiver, a spread-spectrum signal having data.

      4. The improvement as set forth in claim 3 with said first RS-spread-spectrum transmitter including transmitting the access-burst signal with the plurality of segments having the plurality of power levels increasing sequentially,  
5 respectively.

LAW OFFICES  
DAVID NEWMAN  
CHARTERED  
CENTENNIAL SQUARE  
P. O. BOX 2728  
LA PLATA, MD 20646  
(301) 934-8100